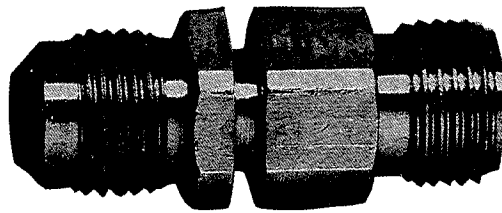


# **1995** **Piston** **Guide**



**For**  
**Residential**  
**Split-Systems**



**This information is the  
latest from BDP. The correct  
Piston is printed on every  
Split-System rating  
plate produced since  
January 1989.**

## TABLE OF CONTENTS

|                                          |       |
|------------------------------------------|-------|
| Introduction to Pistons .....            | 5     |
| Ordering Numbers for<br>BDP Piston ..... | 6     |
| Cooling Charging Procedure .....         | 7     |
| Superheat .....                          | 8     |
| Subcooling .....                         | 10    |
| Heating .....                            | 11    |
| Split-System Introduction .....          | 11    |
| Piston Tables                            |       |
| Split-System Air Conditioner .....       | 12-15 |
| Split-System Heat Pump .....             | 16-19 |

## INTRODUCTION TO PISTON TYPE REFRIGERANT METERING DEVICE

The piston refrigerant metering device is a fixed orifice, easily removable with a 3/8" male flare liquid line feed connection.

Proper application of the piston provides metering flow control to the evaporator or indoor coil which is superior to a comparable capillary tube fed coil. Pistons are easily serviced and can be field changed to allow optimum performance.

The heat pump requires that the piston incorporate bypass or reverse flow characteristics. The piston eliminates the check valves in the heat pump circuitry and it allows easy piston change. It is no longer necessary to change the complete device. Figure 1 shows a typical piston in a metering and bypass position.



A89025

METERING POSITION



BYPASS POSITION

A89026

Fig. 1 — Piston Positions

Note that pistons are included in liquid service valves or liquid distributor inside unit on all heat pumps. Pistons can be used on cooling only as well as heat pump coils and for this reason, most coils and fan coils have a piston.

**TABLE 1**  
**ORDERING NUMBERS FOR**  
**BDP CHECK-FLO-RATER® PISTON**

The following is a guide to Check-Flo-Rater® piston I.D. numbers, orifice diameters, and service parts ordering numbers:

| Piston I.D. Number | Orifice Diameter | Service Parts 10-Pack Number |
|--------------------|------------------|------------------------------|
| 35                 | .0350            | EA52PH035                    |
| 38                 | .0380            | EA52PH038                    |
| 40                 | .0400            | EA52PH040                    |
| 42                 | .0420            | EA52PH042                    |
| 46                 | .0469            | EA52PH046                    |
| 49                 | .0492            | EA52PH049                    |
| 52                 | .0520            | EA52PH052                    |
| 55                 | .0550            | EA52PH055                    |
| 57                 | .0571            | EA52PH057                    |
| 59                 | .0595            | EA52PH059                    |
| 61                 | .0610            | EA52PH061                    |
| 63                 | .0635            | EA52PH063                    |
| 65                 | .0650            | EA52PH065                    |
| 67                 | .0670            | EA52PH067                    |
| 70                 | .0700            | EA52PH070                    |
| 73                 | .0730            | EA52PH073                    |
| 76                 | .0760            | EA52PH076                    |
| 78                 | .0781            | EA52PH078                    |
| 80                 | .0807            | EA52PH080                    |
| 82                 | .0820            | EA52PH082                    |
| 84                 | .0846            | EA52PH084                    |
| 86                 | .0860            | EA52PH086                    |
| 88                 | .0886            | EA52PH088                    |
| 90                 | .0905            | EA52PH090                    |
| 93                 | .0938            | EA52PH093                    |
| 96                 | .0960            | EA52PH096                    |
| 98                 | .0980            | EA52PH098                    |
| 101                | .1015            | EA52PH101                    |
| 104                | .1040            | EA52PH104                    |
| 109                | .1090            | EA52PH109                    |

Also available from your BDP distributor service parts center are the Check-Flo-Rater® retainer and 'O' Ring under part no. 99CC409892.

## COOLING CHARGING PROCEDURE

For charging units with non-TXV metering devices, superheat is the guide. For units with a TXV, subcooling is the guide. Both procedures are used in the cooling mode. Superheat and subcooling training materials are available from your distributor. These training materials also include information pertaining to cooling airflow range which can be used for an estimation in cooling airflow.

## SUPERHEAT CHARGING METHOD

To check and adjust charge during cooling season, use Tables 2 and 3 and the following procedure:

1. Operate unit a minimum of fifteen (15) minutes before checking charge.
2. Measure vapor pressure by attaching a gage to vapor valve service port.
3. Measure vapor line temperature by attaching an accurate thermistor type or electronic thermometer to unit vapor line near vapor valve. Heat pumps require that the temperature to be measured between the accumulator and compressor. Insulate thermometer for accurate readings.
4. Measure outdoor coil inlet air dry-bulb temperature with a second thermometer.
5. Measure indoor coil inlet air wet-bulb temperature with a sling psychrometer.
6. Refer to Table 2. Find air temperature entering outdoor coil and wet-bulb temperature entering indoor coil. At this intersection, note the superheat.
7. Refer to Table 3. Find superheat temperature and vapor pressure, and note vapor line temperature.
8. If unit has higher vapor line temperature than charted temperature, add refrigerant until charted temperature is reached.
9. If unit has lower vapor line temperature than charted temperature, bleed refrigerant until charted temperature is reached.
10. If air temperature entering outdoor coil or pressure at vapor valve changes, charge to new vapor line temperature indicated on chart.

TABLE 2 — SUPERHEAT CHARGING TABLE (°F)

| Outdoor Temp (°F) | Indoor Coil Entering Air (°F) WB |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |
|-------------------|----------------------------------|----|----|----|----|----|----|----|----|----|----|----|----|----|--|--|
|                   | 50                               | 52 | 54 | 56 | 58 | 60 | 62 | 64 | 66 | 68 | 70 | 72 | 74 | 76 |  |  |
| 55                | 9                                | 12 | 14 | 17 | 20 | 23 | 26 | 29 | 32 | 35 | 37 | 40 | 42 | 45 |  |  |
| 60                | 7                                | 10 | 12 | 15 | 18 | 21 | 24 | 27 | 30 | 33 | 35 | 38 | 40 | 43 |  |  |
| 65                | —                                | 6  | 10 | 13 | 16 | 19 | 21 | 24 | 27 | 30 | 33 | 36 | 38 | 41 |  |  |
| 70                | —                                | —  | 7  | 10 | 13 | 16 | 19 | 21 | 24 | 27 | 30 | 33 | 36 | 39 |  |  |
| 75                | —                                | —  | —  | 6  | 9  | 12 | 15 | 18 | 21 | 24 | 28 | 31 | 34 | 37 |  |  |
| 80                | —                                | —  | —  | —  | 5  | 8  | 12 | 15 | 18 | 21 | 25 | 28 | 31 | 35 |  |  |
| 85                | —                                | —  | —  | —  | —  | —  | 8  | 11 | 15 | 19 | 22 | 26 | 30 | 33 |  |  |
| 90                | —                                | —  | —  | —  | —  | —  | 5  | 9  | 13 | 16 | 20 | 24 | 27 | 31 |  |  |
| 95                | —                                | —  | —  | —  | —  | —  | —  | 6  | 10 | 14 | 18 | 22 | 25 | 29 |  |  |
| 100               | —                                | —  | —  | —  | —  | —  | —  | —  | 8  | 12 | 15 | 20 | 23 | 27 |  |  |
| 105               | —                                | —  | —  | —  | —  | —  | —  | —  | 5  | 9  | 13 | 17 | 22 | 26 |  |  |
| 110               | —                                | —  | —  | —  | —  | —  | —  | —  | —  | 6  | 11 | 15 | 20 | 25 |  |  |
| 115               | —                                | —  | —  | —  | —  | —  | —  | —  | —  | —  | 8  | 14 | 18 | 23 |  |  |

—Do not attempt to charge system under these conditions or refrigerant slugging may occur. Charge must be weighed in under these conditions.

TABLE 3 — REQUIRED VAPOR TEMPERATURE (°F)

| Superheat Temp (°F) | Vapor Pressure at Service Port (psig) |      |      |      |      |      |      |      |      |
|---------------------|---------------------------------------|------|------|------|------|------|------|------|------|
|                     | 61.5                                  | 64.2 | 67.1 | 70.0 | 73.0 | 76.0 | 79.2 | 82.4 | 85.7 |
| 0                   | 35                                    | 37   | 39   | 41   | 43   | 45   | 47   | 49   | 51   |
| 2                   | 37                                    | 39   | 41   | 43   | 45   | 47   | 49   | 51   | 53   |
| 4                   | 39                                    | 41   | 43   | 45   | 47   | 49   | 51   | 53   | 55   |
| 6                   | 41                                    | 43   | 45   | 47   | 49   | 51   | 53   | 55   | 57   |
| 8                   | 43                                    | 45   | 47   | 49   | 51   | 53   | 55   | 57   | 59   |
| 10                  | 45                                    | 47   | 49   | 51   | 53   | 55   | 57   | 59   | 61   |
| 12                  | 47                                    | 49   | 51   | 53   | 55   | 57   | 59   | 61   | 63   |
| 14                  | 49                                    | 51   | 53   | 55   | 57   | 59   | 61   | 63   | 65   |
| 16                  | 51                                    | 53   | 55   | 57   | 59   | 61   | 63   | 65   | 67   |
| 18                  | 53                                    | 55   | 57   | 59   | 61   | 63   | 65   | 67   | 69   |
| 20                  | 55                                    | 57   | 59   | 61   | 63   | 65   | 67   | 69   | 71   |
| 22                  | 57                                    | 59   | 61   | 63   | 65   | 67   | 69   | 71   | 73   |
| 24                  | 59                                    | 61   | 63   | 65   | 67   | 69   | 71   | 73   | 75   |
| 26                  | 61                                    | 63   | 65   | 67   | 69   | 71   | 73   | 75   | 77   |
| 28                  | 63                                    | 65   | 67   | 69   | 71   | 73   | 75   | 77   | 79   |
| 30                  | 65                                    | 67   | 69   | 71   | 73   | 75   | 77   | 79   | 81   |
| 32                  | 67                                    | 69   | 71   | 73   | 75   | 77   | 79   | 81   | 83   |
| 34                  | 69                                    | 71   | 73   | 75   | 77   | 79   | 81   | 83   | 85   |
| 36                  | 71                                    | 73   | 75   | 77   | 79   | 81   | 83   | 85   | 87   |
| 38                  | 73                                    | 75   | 77   | 79   | 81   | 83   | 85   | 87   | 89   |
| 40                  | 75                                    | 77   | 79   | 81   | 83   | 85   | 87   | 89   | 91   |

## SUBCOOLING CHARGING METHOD

1. Operate unit a minimum of fifteen (15) minutes before checking the charge (cooling mode).
2. Measure liquid service valve pressure by attaching an accurate gage to the liquid service port.
3. Measure the liquid line temperature by attaching an accurate thermistor type or electronic thermometer to the liquid line near the outdoor coil.
4. Refer to unit rating plate or service manual to find required subcooling temperature using Table 4. Find the point the required subcooling temperature intersects the measured liquid service valve pressure.
5. To obtain the required subcooling temperature at a specific liquid line pressure, add refrigerant if liquid line temperature is higher than indicated or remove refrigerant if temperature is lower. Allow a tolerance of  $\pm 3^{\circ}\text{F}$ .

**TABLE 4 — REQUIRED LIQUID LINE TEMPERATURE ( $^{\circ}\text{F}$ )**

| Pressure (PSIG)<br>at Service Fitting | Required Subcooling Temperature ( $^{\circ}\text{F}$ ) |     |     |     |     |     |
|---------------------------------------|--------------------------------------------------------|-----|-----|-----|-----|-----|
|                                       | 0                                                      | 5   | 10  | 15  | 20  | 25  |
| 134                                   | 76                                                     | 71  | 66  | 61  | 56  | 51  |
| 141                                   | 79                                                     | 74  | 69  | 64  | 59  | 54  |
| 148                                   | 82                                                     | 77  | 72  | 67  | 62  | 57  |
| 156                                   | 85                                                     | 80  | 75  | 70  | 65  | 60  |
| 163                                   | 88                                                     | 83  | 78  | 73  | 68  | 63  |
| 171                                   | 91                                                     | 86  | 81  | 76  | 71  | 66  |
| 179                                   | 94                                                     | 89  | 84  | 79  | 74  | 69  |
| 187                                   | 97                                                     | 92  | 87  | 82  | 77  | 72  |
| 196                                   | 100                                                    | 95  | 90  | 85  | 80  | 75  |
| 205                                   | 103                                                    | 98  | 93  | 88  | 83  | 78  |
| 214                                   | 106                                                    | 101 | 96  | 91  | 86  | 81  |
| 223                                   | 109                                                    | 104 | 99  | 94  | 89  | 84  |
| 233                                   | 112                                                    | 107 | 102 | 97  | 92  | 87  |
| 243                                   | 115                                                    | 110 | 105 | 100 | 95  | 90  |
| 253                                   | 118                                                    | 113 | 108 | 103 | 98  | 93  |
| 264                                   | 121                                                    | 116 | 111 | 106 | 101 | 96  |
| 274                                   | 124                                                    | 119 | 114 | 109 | 104 | 99  |
| 285                                   | 127                                                    | 122 | 117 | 112 | 107 | 102 |
| 297                                   | 130                                                    | 125 | 120 | 115 | 110 | 105 |
| 309                                   | 133                                                    | 128 | 123 | 118 | 113 | 108 |
| 321                                   | 136                                                    | 131 | 126 | 121 | 116 | 111 |
| 331                                   | 139                                                    | 134 | 129 | 124 | 119 | 114 |
| 346                                   | 142                                                    | 137 | 132 | 127 | 122 | 117 |
| 359                                   | 145                                                    | 140 | 135 | 130 | 125 | 120 |

## HEATING CHARGING PROCEDURE

In order to accurately charge a heat pump in the heating mode, the charge must be weighed in as indicated on unit rating plate. Remove any refrigerant remaining in system before recharging. If the system has lost complete charge, evacuate and recharge by weight. The Heating Check Charts in the unit Installation Instructions are for reference only.

## SPLIT-SYSTEM INTRODUCTION

The most important fact to remember is the correct indoor (cooling) piston is shipped with the outdoor unit. The shipped piston is correct for any approved coil combination. Consult pre-sale literature for approved coil combinations. The required outdoor (heating) piston is always factory installed in the liquid valve or liquid distributor and no change is required.

For interconnecting tubing lengths greater than fifty (50) ft, consult your distributor for long-line information. The following tables show the correct piston(s) for any current split-system product.

The following listing also includes metering devices required when a piston is not used, such as "EXV" and "TXV" assemblies.

# **SPLIT-SYSTEM AIR CONDITIONERS**

| Model Number | Indoor Piston |
|--------------|---------------|
| 561A018-A    | 52            |
| 561A018-B    | 52            |
| 561A018-C    | 52            |
| 561A018-E    | 49            |
| 561A024-A    | 59            |
| 561A024-B    | 59            |
| 561A024-C    | 57            |
| 561A024-D    | 59            |
| 561A024-E    | 57            |
| 561A030-A    | 67            |
| 561A030-B    | 67            |
| 561A030-C    | 65            |
| 561A030-D    | 63            |
| 561A036-A    | 70            |
| 561A036-B    | 70            |
| 561A036-C    | 73            |
| 561A036-D    | 73            |
| 561A036-E    | 70            |
| 561A042-A    | 78            |
| 561A042-C    | 80            |
| 561A042-D    | 76            |
| 561A042-E    | 82            |
| 561A048-B    | 84            |
| 561A048-D    | 84            |
| 561A048-E    | 88            |
| 561A048-F    | 82            |
| 561A048-G    | 84            |
| 561A060-B    | 90            |
| 561A060-D    | 90            |
| 561A060-E    | 93            |
| 561A060-F    | 93            |
| 561A060-G    | 90            |
| 561A060-H    | 93            |
| 561A060-J    | 90            |
| 561C018-B    | 52            |
| 561C024-A    | 57            |
| 561C024-B    | 57            |
| 561C030-A    | 67            |
| 561C030-B    | 65            |
| 561C036-A    | 73            |
| 561C036-B    | 70            |
| 561C036-C    | 70            |
| 561C042-A    | 76            |
| 561C042-B    | 82            |
| 561C048-A    | 82            |
| 561C048-B    | 84            |
| 561C060-A    | 93            |
| 561C060-B    | 90            |
| 561C060-C    | 93            |
| 561C060-D    | 90            |

# **SPLIT-SYSTEM AIR CONDITIONERS continued**

| Model Number | Indoor Piston |
|--------------|---------------|
| 561M024-C    | 57            |
| 561M024-D    | 59            |
| 561M024-E    | 57            |
| 561M030-A    | 67            |
| 561M030-C    | 65            |
| 561M030-D    | 63            |
| 561M036-D    | 73            |
| 561M036-E    | 70            |
| 561M042-D    | 76            |
| 561M042-E    | 82            |
| 561M048-F    | 82            |
| 561M048-G    | 84            |
| 561N024-A    | 57            |
| 561N024-B    | 57            |
| 561N030-A    | 67            |
| 561N030-B    | 65            |
| 561N036-A    | 73            |
| 561N036-B    | 70            |
| 561N036-C    | 70            |
| 561N042-A    | 76            |
| 561N042-B    | 82            |
| 561N048-A    | 82            |
| 561N048-B    | 84            |
| 562A018-A    | 57            |
| 562A024-A    | 61            |
| 562A030-A    | 70            |
| 562A036-A    | 76            |
| 562A036-B    | 76            |
| 562A042-A    | 80            |
| 562A042-B    | 80            |
| 562A048-A    | 88            |
| 562A048-B    | 88            |
| 562A060-A    | 101           |
| 562A060-B    | 98            |
| 562C018-A    | 57            |
| 562C024-A    | 61            |
| 562C030-A    | 70            |
| 562C036-A    | 76            |
| 562C042-A    | 80            |
| 562C048-A    | 88            |
| 562C060-A    | 98            |
| 563A024-A    | 61            |
| 563A030-A    | 70            |
| 563A036-A    | 76            |
| 563A036-B    | 73            |
| 563A042-A    | 82            |
| 563A042-B    | 84            |
| 563A048-A    | 90            |
| 563A048-B    | 90            |
| 563A048-C    | 90            |

**SPLIT-SYSTEM AIR CONDITIONERS continued**

| Model Number                |           | Indoor Piston |
|-----------------------------|-----------|---------------|
| 563A060-A                   |           | 104           |
| 563A060-B                   |           | 104           |
| 563A060-C                   |           | 104           |
| 50<br>H<br>E<br>R<br>T<br>Z | 563C024-A | 61            |
|                             | 563C030-A | 70            |
|                             | 563C036-A | 73            |
|                             | 563C036-B | 76            |
|                             | 563C042-A | 84            |
|                             | 563C042-B | 82            |
|                             | 563C048-A | 90            |
|                             | 563C048-B | 90            |
|                             | 563C048-C | 90            |
|                             | 563C060-A | 104           |
|                             | 563C060-B | 104           |
|                             | 563C060-C | 104           |
|                             | 590A020-A | 49            |
|                             | 590A025-A | 63            |
|                             | 590A030-A | 63            |
|                             | 590A035-A | 70            |
|                             | 590A040-B | 80            |
|                             | 590A050-A | 80            |
|                             | 590A060-B | 93            |
|                             | 593C018-A | 55            |
|                             | 593C018-B | 55            |
|                             | 593C024-A | 57            |
|                             | 593C024-B | 57            |
|                             | 593C030-A | 67            |
|                             | 593C030-B | 67            |
|                             | 593C036-B | 73            |
|                             | 593C036-C | 73            |
|                             | 593C042-A | 78            |
|                             | 593C042-B | 78            |
|                             | 593C048-A | 82            |
|                             | 593C048-B | 82            |
|                             | 593C048-C | 82            |
|                             | 593C060-A | 98            |
|                             | 593C060-B | 96            |
|                             | 593C060-C | 96            |
|                             | 597C018-A | 55            |
|                             | 597C024-B | 61            |
|                             | 597C030-B | 67            |
|                             | 597C036-B | 76            |
|                             | 597C036-C | 76            |
|                             | 597C042-B | 84            |
|                             | 597C042-C | 84            |
|                             | 597C048-B | 90            |
|                             | 597C048-C | 90            |
|                             | 597C060-B | 101           |
|                             | 597C060-C | 104           |

**SPLIT-SYSTEM AIR CONDITIONERS continued**

| Model Number | Indoor Piston |
|--------------|---------------|
| 598A036-C    | EA36EC362     |
| 598A048-C    | EA36EC362     |
| 598A060-C    | EA36EC362     |
| 598W036-A    | EA36EC362     |
| 710A018-A    | 52            |
| 710A018-B    | 52            |
| 710A024-A    | 59            |
| 710A024-B    | 59            |
| 710A024-C    | 59            |
| 710A030-A    | 67            |
| 710A030-B    | 67            |
| 710A030-C    | 70            |
| 710A036-A    | 73            |
| 710A036-B    | 73            |
| 710A036-C    | 73            |
| 710A042-A    | 78            |
| 710A042-B    | 78            |
| 710A042-C    | 78            |
| 710A048-A    | 82            |
| 710A048-B    | 84            |
| 710A060-A    | 96            |
| 710A060-B    | 93            |
| 711A018-A    | 52            |
| 711A024-A    | 61            |
| 711A030-A    | 70            |
| 711A036-A    | 76            |
| 711A036-B    | 76            |
| 711A042-A    | 78            |
| 711A042-B    | 78            |
| 711A048-A    | 88            |
| 711A048-B    | 88            |
| 711A060-A    | 98            |
| 711A060-B    | 98            |
| 712A024-A    | 61            |
| 712A030-A    | 70            |
| 712A036-A    | 76            |
| 712A036-B    | 73            |
| 712A042-A    | 82            |
| 712A042-B    | 82            |
| 712A048-A    | 90            |
| 712A048-B    | 88            |
| 712A060-A    | 101           |
| 712A060-B    | 101           |

# SPLIT-SYSTEM HEAT PUMPS

| Model Number | Indoor Piston | Outdoor Piston |
|--------------|---------------|----------------|
| 661B018-D    | 52            | 40             |
| 661B018-E    | 55            | 40             |
| 661B024-A    | 57            | 46             |
| 661B024-D    | 65            | 46             |
| 661B024-E    | 61            | 46             |
| 661B024-F    | 63            | 49             |
| 661B024-G    | 63            | 49             |
| 661B030-A    | 70            | 52             |
| 661B030-D    | 73            | 52             |
| 661B030-E    | 73            | 52             |
| 661B030-F    | 70            | 52             |
| 661B030-G    | 67            | 55             |
| 661B030-H    | 70            | 55             |
| 661B036-A    | 78            | 59             |
| 661B036-D    | 80            | 59             |
| 661B036-E    | 78            | 59             |
| 661B036-F    | 78            | 59             |
| 661B036-G    | 76            | 61             |
| 661B036-H    | 73            | 59             |
| 661B042-A    | 84            | 63             |
| 661B042-C    | 84            | 67             |
| 661B042-D    | 84            | 65             |
| 661B048-A    | 88            | 67             |
| 661B048-C    | 88            | 73             |
| 661B048-D    | 88            | 73             |
| 661B060-A    | 101           | 70             |
| 661B060-C    | 96            | 76             |
| 661B060-D    | 96            | 76             |
| 661C018-A    | 52            | 40             |
| 661C018-B    | 55            | 40             |
| 661C024-A    | 63            | 49             |
| 661C024-B    | 63            | 49             |
| 661C030-A    | 70            | 55             |
| 661C030-B    | 67            | 55             |
| 661C036-A    | 76            | 61             |
| 661C036-B    | 73            | 59             |
| 661C042-A    | 84            | 67             |
| 661C042-B    | 84            | 65             |
| 661C048-A    | 88            | 73             |
| 661C048-B    | 88            | 73             |
| 661C060-A    | 96            | 76             |
| 661C060-B    | 96            | 76             |
| 661N024-D    | 65            | 46             |
| 661N024-E    | 61            | 46             |
| 661N024-F    | 63            | 49             |
| 661N024-G    | 63            | 49             |
| 661N030-D    | 73            | 52             |
| 661N030-E    | 73            | 52             |
| 661N030-F    | 70            | 52             |
| 661N030-G    | 67            | 55             |
| 661N030-H    | 70            | 55             |

# SPLIT-SYSTEM HEAT PUMPS continued

| Model Number                | Indoor Piston | Outdoor Piston |
|-----------------------------|---------------|----------------|
| 661N036-D                   | 80            | 59             |
| 661N036-E                   | 78            | 59             |
| 661N036-G                   | 76            | 61             |
| 661N036-H                   | 73            | 59             |
| 661N042-A                   | 84            | 63             |
| 661N042-C                   | 84            | 67             |
| 661N042-D                   | 84            | 65             |
| 661N048-A                   | 88            | 67             |
| 661N048-C                   | 88            | 73             |
| 661N048-D                   | 88            | 73             |
| 661P024-A                   | 63            | 49             |
| 661P024-B                   | 63            | 49             |
| 661P030-A                   | 70            | 55             |
| 661P030-B                   | 67            | 55             |
| 661P036-A                   | 76            | 61             |
| 661P036-B                   | 73            | 59             |
| 661P042-A                   | 84            | 67             |
| 661P042-B                   | 84            | 65             |
| 661P048-A                   | 88            | 73             |
| 661P048-B                   | 88            | 73             |
| 662A018-A                   | 57            | 43             |
| 662A024-A                   | 61            | 52             |
| 662A030-A                   | 67            | 55             |
| 662A036-A                   | 76            | 63             |
| 662A042-A                   | 82            | 65             |
| 662A048-A                   | 90            | 73             |
| 662A060-A                   | EA36EC355     | 78             |
| 663A018-A                   | EA36EC350     | 43             |
| 663A024-A                   | EA36EC351     | 52             |
| 663A030-A                   | EA36EC352     | 55             |
| 663A036-A                   | EA36EC353     | 63             |
| 663A042-A                   | EA36EC353     | 65             |
| 663A048-A                   | EA36EC354     | 73             |
| 663A060-A                   | EA36EC355     | 78             |
| 50<br>H<br>E<br>R<br>T<br>Z | 690A030-B     | 67             |
|                             | 690A035-B     | 70             |
|                             | 690A040-C     | 76             |
|                             | 690A050-B     | 82             |
|                             | 690A060-C     | 93             |
|                             | 693C018-C     | 55             |
|                             | 693C024-B     | 61             |
|                             | 693C030-B     | 70             |
|                             | 693C036-B     | 78             |
|                             | 693C042-B     | 82             |
|                             | 693C048-B     | 88             |
|                             | 693C060-B     | 98             |
|                             |               | 42             |
|                             |               | 49             |
|                             |               | 59             |
|                             |               | 61             |
|                             |               | 63             |
|                             |               | 70             |
|                             |               | 78             |

**SPLIT-SYSTEM HEAT PUMPS continued**

| Model Number | Indoor Piston | Outdoor Piston |
|--------------|---------------|----------------|
| 693D018-A    | 55            | 42             |
| 693D024-A    | 65            | 46             |
| 693D030-A    | 70            | 52             |
| 693D036-A    | 76            | 61             |
| 693D042-A    | 80            | 63             |
| 693D048-A    | 88            | 70             |
| 693D060-A    | 98            | 78             |
| 694C018-C    | EA36EC350     | 42             |
| 694C024-C    | EA36EC351     | 49             |
| 694C030-C    | EA36EC352     | 52             |
| 694C036-C    | EA36EC353     | 59             |
| 694C042-B    | EA36EC353     | 63             |
| 694C048-B    | EA36EC354     | 70             |
| 697B018-B    | EA36EC350     | 42             |
| 697B024-B    | EA36EC351     | 49             |
| 697B030-B    | EA36EC352     | 52             |
| 697B036-B    | EA36EC353     | 59             |
| 697B042-B    | EA36EC353     | 63             |
| 697B048-B    | EA36EC354     | 70             |
| 697B060-B    | EA36EC355     | 73             |
| 697C024-A    | EA36EC351     | 49             |
| 697C030-A    | EA36EC352     | 52             |
| 697C030-B    | EA36EC352     | 52             |
| 697C036-A    | EA36EC353     | 59             |
| 697C036-B    | EA36EC353     | 59             |
| 697C042-A    | EA36EC353     | 63             |
| 697C042-B    | EA36EC353     | 63             |
| 697C048-A    | EA36EC354     | 70             |
| 697C060-A    | EA36EC355     | 73             |
| 697H024-A    | EA36EC351     | EA36EC381      |
| 697H030-A    | EA36EC352     | EA36EC381      |
| 697H036-A    | EA36EC353     | EA36EC383      |
| 697H042-A    | EA36EC353     | EA36EC384      |
| 697H048-A    | EA36EC354     | EA36EC384      |
| 698A036-B    | EA36EC361     | 55             |
| 698A048-B    | EA36EC361     | 70             |
| 698A060-B    | EA36EC361     | 67             |
| 810A018-D    | 52            | 40             |
| 810A018-E    | 55            | 40             |
| 810A024-D    | 61            | 46             |
| 810A024-E    | 59            | 46             |
| 810A030-C    | 65            | 52             |
| 810A030-D    | 70            | 52             |
| 810A036-C    | 78            | 59             |
| 810A036-D    | 78            | 61             |
| 810A042-A    | 82            | 63             |
| 810A042-B    | 82            | 63             |
| 810A048-A    | 88            | 67             |
| 810A048-B    | 88            | 67             |
| 810A060-A    | 101           | 76             |
| 810A060-B    | 101           | 76             |

**SPLIT-SYSTEM HEAT PUMPS continued**

| Model Number | Indoor Piston | Outdoor Piston |
|--------------|---------------|----------------|
| 811A018-A    | 59            | 42             |
| 811A024-A    | 70            | 52             |
| 811A030-A    | 70            | 55             |
| 811A036-A    | 76            | 63             |
| 811A042-A    | 84            | 67             |
| 811A048-A    | 93            | 70             |
| 811A060-A    | EA36EC355     | 78             |
| 812A018-A    | EA36EC350     | 42             |
| 812A024-A    | EA36EC351     | 52             |
| 812A030-A    | EA36EC352     | 55             |
| 812A036-A    | EA36EC353     | 63             |
| 812A042-A    | EA36EC353     | 65             |
| 812A048-A    | EA36EC354     | 73             |
| 812A048-B    | EA36EC354     | 73             |
| 812A060-A    | EA36EC355     | 78             |
| 812A060-B    | EA36EC355     | 78             |



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3-95

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